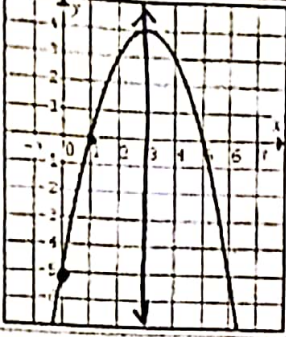
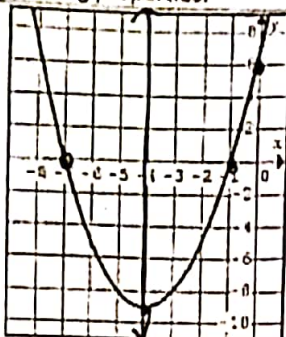
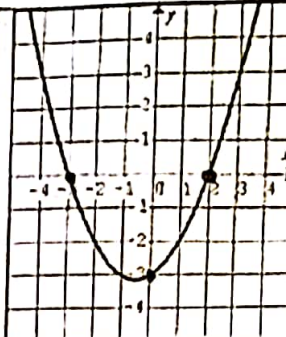


Day 1 Hw Parts of the Quadratic Function

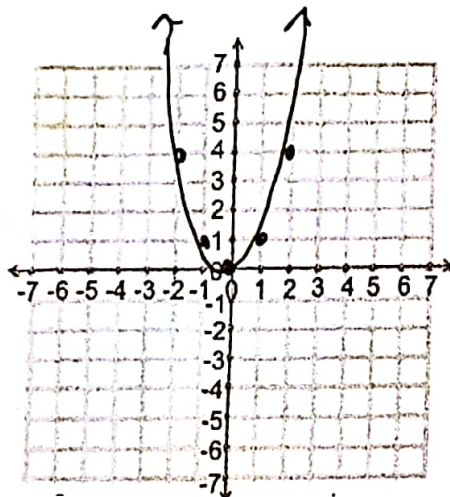
Part 1: Fill in the following table

For each of the following parabolas, identify the following properties:

Parabola Graph			
Vertex	(3, 4)	(-4, 9)	(.5, -3)
Max/min value	Maximum	Minimum	Minimum
Axis of Symmetry	$x = 3$	$x = -4$	$x = .5$
Zero(s)	(1, 0) (5, 0)	(-7, 0) (-1, 0)	(-3, 0) (2, 0)
Direction of Opening	DOWN	UP	UP
y-intercept	(0, -5)	(0, 6)	(0, -3)

Part 2: Fill in the table and graph with the parent function for quadratics, $y = x^2$

x	y
-2	4
-1	1
0	0
1	1
2	4



Part 3: Describe how the following equations were transformed from $y = x^2$.

1. $y = x^2 - 5$ Down 5

2. $y = (x - 5)^2 + 1$ Right 5, Up 1

3. $y = \frac{1}{2}(x + 3)^2$ shrunk by $\frac{1}{2}$
Left 3

4. $y = -3(x - 6)^2$

Reflect over x-axis
Right 6